

Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

B1 1. (Currently amended) A method for customer driven charge storage device design comprising the steps of:

providing more than one model of a charge storage device, the model adapted to convert at least one ~~input~~ customer inputted requirement selected from the group consisting of energy density, cycle life, rate capability, impedance, temperature range of operation and/or survival, safety requirements, storage life, self-discharge behavior, form factor, and cost into at least one output;

providing an interface, the interface being adapted to pass ~~input~~ the customer inputted requirement to the model, the interface being adapted to pass output from the model, and the interface being adapted to hide the model;

wherein the customer addresses the interface with the ~~input~~ the customer inputted requirement, the interface directs the ~~input~~ the customer inputted requirement to at least one of the models, the model generates the output that passes through the interface to the customer.

2. (Original) The method of claim 1 wherein the model is selected from the group consisting of first principles' models, empirically-based models, and hybrid models consisting of combinations of first principles' models and empirically-based models.

3. (Original) The method of claim 1 wherein the ~~input~~ customer inputted requirement further comprised a plurality of ~~inputs~~ customer inputted requirements.

4. (Original) The method of claim 1 wherein the output further comprises a plurality of outputs.

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cont. 5. (Original) The method of claim 1 wherein the model further comprises a database, the model and the database being in communication.

6. (Original) The method of claim 1 wherein the output further comprises a design of the charge storage device.

7. (Previously amended) A method for customer-driven charge storage device design comprising the steps of:

providing a customer interface adapted for defining a customer inputted test procedure for a desired charge storage device and defining a customer inputted requirement for the charge

storage device, the customer inputted requirement being selected from the group consisting of energy density, cycle life, rate capability, impedance, temperature range of operation and/or survival, safety requirements, storage life, self-discharge behavior, form factor, and cost;

providing a plurality of charge storage device models;

providing a routine capable of selecting at least one of the charge storage device models;

executing a simulation wherein the customer test procedure, the customer requirement, and the selected charge storage device model are combined to render a custom charge storage device design and the models are hidden from the customer;

storing the custom charge storage device design; and
outputting the custom charge storage device design.

8. (Original) The method of claim 7 wherein the selecting routine being adapted for either customer selection of routine selection based upon, at least in part, the customer test procedure and the customer requirement.

9. (Original) The method of claim 7 wherein the model further comprises a sizing program and a performance program.

10. (Original) The method of claim 7 wherein the model further comprises a sizing program, and a performance program, and an abuse program.

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concl.* 11. (Original) The method of claim 7 wherein executing a simulation further comprises the step of optimizing the simulation.

12. (Original) The method of claim 7 wherein outputting the custom charge storage device design further comprises the step of reporting the design.
